

# RADIO COMMUNICATION

## Index to Volume 62 - January to December 1986

| Issue    | Pages   | Issue | Pages   | Issue     | Pages   | Issue    | Pages   |
|----------|---------|-------|---------|-----------|---------|----------|---------|
| January  | 1-72    | April | 225-304 | July      | 457-532 | October  | 677-748 |
| February | 73-144  | May   | 305-376 | August    | 533-604 | November | 749-820 |
| March    | 145-224 | June  | 377-456 | September | 605-676 | December | 821-900 |

### Authors

|   |               |
|---|---------------|
| Case, John, GW4HWR  |               |
| Power supplies on a shoe-string Parts 1-2.....  | 488, 556      |
| Cracknell, Ray, G2AHU   |               |
| How about trying 50MHz?.....  | 641           |
| Crawley, John, GM3BLX   |               |
| A home-built frequency synthesizer for 45 to 75MHz, Parts 1-2.....                      | 560, 628      |
| Fare, G N, G3OGQ  |               |
| A talking frequency counter.....  | 838           |
| Fletcher, C F, BSc, MIEE, CEng, G3DXZ   |               |
| A vnae set power amplifier.....   | 553           |
| Forrester, T D, G4WIM   |               |
| A 1.8MHz auto tuning vertical antenna.....  | 766           |
| Fritsch, D H G, G0CKZ   |               |
| Active elliptic audio filter design using op-amps, Parts 1-2.....                       | 98, 179       |
| Grierson, M J, G3TSO  |               |
| Conversion of the FT707 for top band.....   | 482, 640, 696 |
| Guy, Derek, G3IBH   |               |
| A simplistic approach to the design of low power output stages for cw transmitters..... | 775           |
| Heys, John D, G3BDQ   |               |
| The grounded, top-loaded "Steeple"—an all-band antenna for dx working.....              | 566           |
| Kimbell, G F, G3TCT   |               |
| Transatlantic propagation by sporadic-E at 50MHz.....                                   | 491           |
| Knight, Lorin, MIEE, G2DXK  |               |
| A linear amplifier for the hf band transceiver, Parts 1-2.....                          | 168, 256      |
| Enhancements to the hf band transceiver.....  | 333           |
| Jones, D S, GW3XYW  |               |
| A 50MHz receive/transmit converter.....   | 260           |
| Lear, V C, G3TKN  |               |
| Gamma matching towers and masts at lower frequencies.....                               | 176           |
| Lonnon, B L, G3ZUM  |               |
| A rotator speed controller.....   | 32            |
| Maciver, D, G1SIU   |               |
| A neck boom microphone for mobile use.....  | 845           |
| Matthews, John, G3WZT   |               |
| A single-stage linear amplifier for 50MHz.....  | 404           |
| Plant, Anthony B, BSc, CEng, MIEE, G3NXC  |               |
| The transmission line as an impedance transformer.....                                  | 702           |
| Price, Steve, G4BWE   |               |
| Direct-conversion cw transceivers.....  | 26            |
| The G4BWE cw memory Mk2.....  | 250           |
| Reid, David A, GM0BZF   |               |
| A dx trailer.....   | 103           |
| Robinson, D I, BSc, G4FRE   |               |
| An oprom keyer for beacon usage.....  | 770           |
| Sedgwick, N H, G8WV   |               |
| The 3.5MHz dipole—practical aspects.....  | 335           |
| Varney, L, CEng, MIEE, AIL, G5RV  |               |
| HF equipment switching units.....   | 850           |
| White, Ian F, G3SEK   |               |
| Measurements on modern vhf/uhf front-ends, Parts 1-2.....                               | 699, 772      |

### Clubs

|                          |          |
|--------------------------|----------|
| Derby & DARS.....        | 245      |
| MARAC.....               | 190      |
| RAFARS.....              | 244      |
| RAIBC HF Net, G4IBC..... | 162, 475 |
| South Dorset RS.....     | 622      |
| West Kent ARS.....       | 475      |
| 10-UK wound up.....      | 696      |

### Conferences, conventions, courses, exhibitions and lectures

|   |               |
|---|---------------|
| BATC Rally/Show.....                            | 246           |
| Frequency Synthesis and Control Conference..... | 475           |
| G3PAO Memorial lecture.....                     | 162           |
| Home Construction Competition.....              | 776           |
| Morse courses.....                              | 623, 697      |
| RAE classes.....                                | 398, 623, 696 |
| RAE May 1986, CGLI report on the.....           | 851           |
| Raynet Symposium.....                           | 246           |
| Region 14 Workshop 86.....                      | 162           |
| RSGB Midlands VHF Convention.....               | 696           |
| RSGB National Amateur Radio Convention.....     | 165           |
| RSGB National HF Convention.....                | 627           |
| RSGB National VHF Convention.....               | 97, 501       |
| SCOTAM '86.....                                 | 623           |
| Welsh Amateur Radio Convention.....             | 622           |

### Contest, df (Rules in *italic*)

|   |         |
|---|---------|
| Chelmsford & Colchester Qualifying Event.....   | 356,726 |
| Cowentry Qualifying Event.....                  | 589,726 |
| Dartford Heath Qualifying Event.....            | 434,799 |
| G T Peck Memorial Trophy DF Event.....          | 283     |
| Fifth South Manchester Quad Night DF Event..... | 203,659 |
| Mid-Thames DF Qualifying Event.....             | 435,726 |
| Mid-Thames Treble Night DF Contest.....         | 725     |
| Northampton DF Qualifying Event.....            | 434,725 |
| Oxford DF Qualifying Event.....                 | 283     |
| Slade DF Qualifying Event.....                  | 589     |
| South Manchester DF Qualifying Event.....       | 435,725 |

### Contests hf (UK) (Rules in *italic*)

|  |         |
|--|---------|
| Affiliated Societies Team 1987.....                  | 799     |
| Affiliated Societies Team 1986.....                  | 433     |
| BARTG Spring RTTY.....                               | 203     |
| Commonwealth 1986.....                               | 586     |
| Commonwealth 1987.....                               | 880     |
| CW Cumulative 1987 (1.8, 3.5 and 7MHz).....          | 881     |
| Field day events.....                                | 354     |
| First Short Wave Listener, 1985.....                 | 50      |
| First 1.8MHz 1986.....                               | 435     |
| First 1.8MHz 1987.....                               | 881     |
| HF Championship 1984-5.....                          | 51, 800 |
| HF Championship 1986-7.....                          | 725     |
| HF Cumulative Contests 1986.....                     | 354     |
| HF NFD 1985 footnote.....                            | 52      |
| HF NFD 1986.....                                     | 123,721 |
| HF SWL Championship 1985.....                        | 355     |
| IARU Region 1 SSB FD 1985.....                       | 122     |
| Listener Championship 1986.....                      | 51      |
| Low Power Field Day 1986.....                        | 437,724 |
| Low Power 1986.....                                  | 124,587 |
| Region Round-up CW.....                              | 203,588 |
| ROPOCO 1 1986.....                                   | 203,799 |
| ROPOCO 2.....  | 513     |
| RSGB Listener 1986.....                              | 355     |
| RSGB SSB Field Day/IARU Regional Field Day 1986..... | 355     |
| RSGB 21/28MHz SSB 1985.....                          | 282     |
| First 1.8MHz 1986.....                               | 51      |
| 1.8MHz Contest 1986, Second.....                     | 725     |
| 1.8MHz 1985, Second.....                             | 202     |
| 1.8MHz Town & County.....                            | 122,657 |
| Summer 1.8MHz 1986.....                              | 356,724 |
| 3.5MHz Hopscotch.....                                | 436,799 |

|  |          |
|--|----------|
| 7MHz Contest 1986.....                         | 656      |
| 7MHz Contest 1987.....                         | 724, 881 |
| 21MHz CW, 1985.....                            | 281      |
| 21MHz CW, 1986.....                            | 514      |
| 21/28MHz Telephony 1986.....                   | 356      |
| 28MHz CW Cumulatives.....                      | 201, 656 |
| 28MHz Phone & CW Cumulative 1986.....          | 203, 656 |
| 28MHz Phone Cumulatives.....                   | 122, 657 |
| 28MHz Cumulative Contests 2nd series 1986..... | 659      |

## Contests, hf (overseas)

|                                  |          |
|----------------------------------|----------|
| AGCW-DL QRP Summer.....          | 507      |
| AGCW-DL Straight Key Party.....  | 649      |
| AGCW-DL Winter.....              | 858      |
| All Asian DX (phone).....        | 426      |
| All Asian DX (cw).....           | 577      |
| All Austrian.....                | 792      |
| ARI.....                         | 348      |
| ARRL DX.....                     | 120, 859 |
| Australian Ladies.....           | 712      |
| Bermuda.....                     | 120      |
| Colombian Independence.....      | 426      |
| CQ WW DX CW 1984.....            | 120, 271 |
| CQ WW 160m DX 1986.....          | 48, 48   |
| CQ WW WPX SSB 1985.....          | 426, 578 |
| CQ WW WPX SSB 1986.....          | 191      |
| CQ WW WPX CW 1986.....           | 348      |
| CQ WW WPX CW 1985.....           | 578      |
| CQ WW DX 1986.....               | 711      |
| CQ WW DX Phone 1985.....         | 792      |
| EA DX CW.....                    | 425      |
| European DX.....                 | 577      |
| Happy New Year.....              | 858      |
| Howdy Days.....                  | 577      |
| Hungarian DX.....                | 48       |
| HA DX.....                       | 191      |
| Helvetia.....                    | 271      |
| IARU HF Championship.....        | 425      |
| Loano Elettra.....               | 650      |
| LZ DX.....                       | 577      |
| N California QSO Party.....      | 650      |
| OK DX.....                       | 792      |
| ON.....                          | 711      |
| PACC.....                        | 48       |
| Peace to the World.....          | 271      |
| Scandinavian 1985.....           | 577      |
| SEANET.....                      | 577      |
| Scandinavian Activity.....       | 649      |
| SP DX.....                       | 191      |
| Third JYLARA.....                | 121      |
| TM-OM Midwinter.....             | 859      |
| UBA Trophy.....                  | 47       |
| UBA.....                         | 348      |
| UBA SWL.....                     | 507      |
| UBA/SWL 1987.....                | 858      |
| Venezuelan.....                  | 507      |
| World SSB Championships.....     | 659      |
| VK/ZL/Oceania.....               | 649      |
| WA-YZ.....                       | 711      |
| YL Anniversary Party.....        | 712      |
| YL-OM Midwinter.....             | 47       |
| YL-OM.....                       | 47       |
| YU DX.....                       | 48       |
| IX Concurso Ibero-Americano..... | 649      |

## Contests, vhf/uhf (Rules in *italic*)

|  |               |
|--|---------------|
| IARU Region 1 VHF/UHF/SHF.....           | 436           |
| IARU Region 1 VHF/UHF/SHF Listeners..... | 436           |
| Microwave Cumulative 1985.....           | 203, 435      |
| RSGB UHF/SHF.....                        | 91            |
| VHF/UHF Listeners Championship 1985..... | 202           |
| VHF NFD 1986.....                        | 283, 727, 878 |
| 70MHz & SWL.....                         | 283, 587      |
| 70MHz Trophy & SWL.....                  | 588, 880      |
| 70MHz Cumulative.....                    | 50, 513       |

|   |               |
|---|---------------|
| 70MHz CW 1985.....  | 280           |
| 70MHz CW 1986.....  | 731           |
| 70MHz Fixed Station.....                                  | 201, 586      |
| 144MHz & SWL.....   | 202, 730      |
| 144MHz CW.....  | 50            |
| 144MHz CW February.....                                   | 435           |
| 144MHz CW & Marconi Memorial 1988.....                    | 124, 587, 588 |
| 144MHz Fixed Station & Affiliated Societies.....          | 280, 437      |
| 144MHz Fixed Contest & Affiliated Societies VHF 1986..... | 731           |
| 144MHz Low Power & SWL.....                               | 437, 589, 838 |
| 144MHz Trophy & SWL.....                                  | 49, 436, 878  |
| 144/432MHz & SWL 1986.....                                | 125, 657      |
| 432 Cumulatives.....                                      | 281, 588      |
| 432MHz CW 1986.....                                       | 124, 587      |
| 432MHz Fixed Station.....                                 | 52, 513       |
| 432MHz Low Power & SWL.....                               | 437, 589, 879 |
| 432MHz Trophy & SWL.....                                  | 283, 731      |
| 432MHz-24GHz.....   | 203, 658      |
| 432MHz-24GHz UHF/SHF & SWL 1986.....                      | 588           |
| 1,296MHz Trophy Contest 1986.....                         | 732           |
| 1,296/2,320MHz.....                                       | 436, 878      |
| 1,296/2,320MHz Cumulatives.....                           | 201           |
| 10GHz Cumulative.....                                     | 203, 679      |
| 10GHz Cumulative 1985.....                                | 435           |
| 1-3/2-3GHz Cumulative Contests.....                       | 588           |

## Licensing and band plans

|                              |    |
|------------------------------|----|
| Locators again.....          | 40 |
| 7MHz.....                    | 46 |
| 50MHz—Long-awaited band..... | 18 |

## "Microwaves" technical items

|                        |     |
|------------------------|-----|
| Fundamentals (10)..... | 112 |
|------------------------|-----|

## Miscellany

|  |                   |
|--|-------------------|
| Amateur radio at Expo 86.....                          | 397               |
| Communications & Electronics Museum, The.....          | 163, 246          |
| G4V-series award.....                                  | 324               |
| Halley's comet.....                                    | 42                |
| How fast can you go?.....                              | 92                |
| Morsum Magnificat.....                                 | 623               |
| Pirates.....   | 162, 398          |
| Radio Fraternity Lodge.....                            | 397               |
| Repeater news.....                                     | 42, 114, 193, 423 |
| Scottish amateur radio Freemasons lodge, proposed..... | 162               |
| SKE 86.....  | 324               |
| Stolen equipment.....                                  | 162, 397          |
| Tributes and awards.....                               | 248               |
| Twins, Earlier.....                                    | 24                |
| Watch Channel 4.....                                   | 324               |
| What a whopper!.....                                   | 25                |

## Non-technical articles

|  |     |
|--|-----|
| How about trying 50MHz?.....               |     |
| Ray Cracknell, G2AHU.....                  | 641 |
| IARU, yesterday, today, tomorrow, The..... |     |
| Richard L Baldwin, W1RU.....               | 787 |

## Regular features

|   |   |
|---|---|
| Computing.....                          | 116, 273, 431, 718, 873                                   |
| Data Communications.....                | 45, 111, 200, 276, 352, 432, 511, 584, 694, 720, 798, 877 |
| HF.....                                 | 46, 118, 190, 269, 346, 424, 506, 576, 648, 713, 791, 865 |
| HF F layer Propagation Predictions..... | 489, 121, 192, 349, 427, 508, 579, 650, 713, 793, 867     |
| Members' Mailbag.....                   | 94, 166, 249, 327, 400, 480, 552, 626, 785                |
| Microwaves.....                         | 44, 112, 195, 275, 350, 430, 512, 581, 652, 716, 795, 872 |
| QRP.....                                | 199, 429, 655, 875  |
| Raynet.....                             | 43, 353, 876  |
| Satellites.....                         | 116, 198, 274, 351, 428, 510, 580, 653, 717, 796, 874     |
| SWL.....                                | 43, 112, 196, 272, 349, 427, 509, 579, 651, 719, 794, 870 |
| VHF/UHF.....                            | 40, 113, 193, 277, 344, 422, 503, 582, 645, 713, 789, 868 |

## Reviews, equipment

|  |     |
|--|-----|
| <b>Amateur Radio Software</b>          |     |
| Graham Cluer, G4AVV.....               | 415 |
| Icom IC751A hf transceiver, The        |     |
| Peter Hart, G3SIX.....                 | 410 |
| Maplin TU1000 rity terminal unit       |     |
| Steve Price, G4BWE.....                | 848 |
| Trio TS930S and TS940S hf transceivers |     |
| Peter Hart, G3SIX.....                 | 328 |

## Reviews, publications

|   |     |
|---|-----|
| <i>Beginner's Guide to Amateur Radio</i> .....            | 500 |
| <i>GCHQ—The Secret Wireless War</i> .....                 | 784 |
| <i>Guide to Utility Stations</i> .....                    | 500 |
| <i>Guide to Facsimile Stations</i> .....                  | 500 |
| <i>Radioteletype Code Manual</i> .....                    | 500 |
| <i>Amateur Radio Software</i> .....                       | 585 |
| <i>Op-amps—Their principles and applications</i> .....    | 585 |
| <i>Oscilloscopes—How to use them, how they work</i> ..... | 585 |
| <i>Practical Electronics Handbook</i> .....               | 585 |

## RSGB affairs

|  |                               |
|--|-------------------------------|
| <b>Committee vacancies:</b>                          |                               |
| EMC.....   | 162                           |
| Technical & Publications.....                        | 25, 859                       |
| VHF.....   | 245                           |
| VHF Contests.....                                    | 397                           |
| Council election result.....                         | 24                            |
| Council Proceedings.....                             | 476, 477, 624, 625            |
| <b>Editorials:</b>                                   |                               |
| "Amateur radio information by telephone".....        | 549                           |
| "Happy return".....                                  | 474                           |
| "More than meets the eye".....                       | 621                           |
| "Morse testing—a new service".....                   | 17                            |
| "Morse testing—an update".....                       | 91                            |
| "New members—please".....                            | 396                           |
| "Packet radio—a future".....                         | 323                           |
| "Prepared for emergencies".....                      | 161                           |
| "The amateur & the Government".....                  | 243                           |
| "The experimental path to 50MHz".....                | 17                            |
| "Upgrading the HQ administration".....               | 695                           |
| From the Secretary's office.....                     | 765, 837                      |
| GSKW, new RSGB vice-President.....                   | 696                           |
| <b>President:</b>                                    |                               |
| A message from the Society's 1985 President.....     | 24                            |
| A seasonal message from the Society's President..... | 837                           |
| Installation of the 52nd RSGB President.....         | 25, 162                       |
| Executive vice-President 1986.....                   | 92                            |
| QSL Bureau news.....                                 | 24, 162                       |
| <b>Radio Communication:</b>                          |                               |
| Change of address.....                               | 397                           |
| Delivery survey.....                                 | 244                           |
| Leads the field.....                                 | 397                           |
| Publication date.....                                | 244                           |
| Raynet Zone 1 election.....                          | 24                            |
| <b>Representatives:</b>                              |                               |
| Region 6.....  | 92, 324, 475                  |
| Region 10.....                                       | 24, 324, 622                  |
| Region 20.....                                       | 92, 324, 475                  |
| Isle of Man area.....                                | 475, N B Aug                  |
| Region 18 ORM.....                                   | 92                            |
| Report & Accounts, year ending 1986.....             | (Supplement ppi-xvi) November |
| Scottish trophies.....                               | 397                           |

## RSGB News Bulletin

|                                   |                      |
|-----------------------------------|----------------------|
| Annual subscription rates.....    | May                  |
| Are you clean?.....               | Nov                  |
| "Calling the DataBox", G4DMP..... | July                 |
| Class B morse.....                | Feb, Mar, June, July |
| Coastal radio stations.....       | Nov                  |
| Committee expenses.....           | Aug                  |
| Connect International.....        | Oct, Nov             |
| Cordless phones.....              | July                 |
| IARU Region 3 Conference.....     | Mar                  |
| IAS-1/FO-12.....                  | Apr, Aug, Sept, Nov  |
| Licence fees.....                 | Aug                  |
| Licensing.....                    | Sept                 |

|   |                           |
|---|---------------------------|
| Minutes of the 50th agm.....                      | May                       |
| Mobile mics.....                                  | Sept                      |
| Morse tests.....                                  | Jan-Mar, May-Nov          |
| Nominations for election to the 1987 Council..... | Aug                       |
| RIS/EMC.....                                      | Mar, May, June, Sept, Nov |
| RMG.....  | Feb, Apr, Oct             |
| RSGB 1987 President.....                          | Apr                       |
| RSGB slow morse practice transmissions.....       | Apr                       |
| Raynet.....                                       | June, July, Sept-Nov      |
| The China syndrome.....                           | July                      |
| Reducing rf breakthrough using ferrite rings..... | Apr                       |
| 50MHz.....  | Jan-June                  |
| 432MHz.....                                       | Aug                       |

## Technical articles

|  |               |
|--|---------------|
| <i>Active elliptic audio filter design using op-amps, Parts 1-2</i>                        |               |
| D H G Fritsch, G0CKZ.....  | 96, 179       |
| <i>Conversion of the FT707 for top band</i>  |               |
| M J Grierson, G3TSC.....   | 402, 640, 696 |
| <i>Direct-conversion cw transceivers</i>   |               |
| Steve Price, G4BWE.....  | 26            |
| <i>DX trailer, A</i>   |               |
| David A Reid, GM0BZF.....  | 103           |
| <i>Enhancements to the hf band transceiver</i>   |               |
| Lorin Knight, M1EE, G2DXK.....   | 333           |
| <i>Eprom keyer for beacon usage, An</i>  |               |
| D J Robinson, BSc, G4FRE.....  | 770           |
| <i>G4BWE cw memory Mk2, The</i>  |               |
| Steve Price, G4BWE.....  | 250           |
| <i>Gamma matching towers and masts at lower frequencies</i>                                |               |
| Lear, V C, G3TKN.....  | 176           |
| <i>Grounded, top-loaded, "Steeplo", The—An all-band antenna for dx working</i>             |               |
| John D Heys, G3BDQ.....  | 566           |
| <i>HF equipment switching units</i>  |               |
| Varney, L, CEng, M1EE, AIL, G5RV.....  | 850           |
| <i>Home-built frequency synthesizer for 45 to 75MHz, A, Parts 1-2</i>                      |               |
| John Crawley, GM3BLX.....  | 560, 628      |
| <i>Linear amplifier for the hf band transceiver, A, Parts 1-2</i>                          |               |
| Lorin Knight, M1EE, G2DXK.....   | 168, 250, 475 |
| <i>Measurements on modern vhf/uhf front-ends, Parts 1-2</i>                                |               |
| Ian F White, G3SEK.....  | 699, 772      |
| <i>Neck boom microphone for mobile use, A</i>  |               |
| Maciver, D, G1SJU.....   | 845           |
| <i>Power supplies on a shoe string, Parts 1-2</i>  |               |
| John Case, GW4HWR.....   | 488, 556      |
| <i>Rotator speed controller, A</i>   |               |
| B L Lannon, G3ZUM.....   | 32            |
| <i>Simplistic approach to the design of low power output stages for cw transmitters, A</i> |               |
| Derek Guy, G3IBH.....  | 775           |
| <i>Single-stage linear amplifier for 50MHz, A</i>  |               |
| John Matthews, G3WZT.....  | 404           |
| <i>Talking frequency counter, A</i>  |               |
| Farr, G N, G3OGQ.....  | 838           |
| <b>TRANAP</b> .....  | errata 162    |
| <i>Transatlantic propagation by sporadic-E at 50MHz</i>                                    |               |
| G F Kimbell, G3TCT.....  | 491           |
| <i>Transmission line as an impedance transformer, The</i>                                  |               |
| Anthony B Plant, BSc, CEng, M1EE, G3NXC.....   | 702           |
| <i>VMOS fet power amplifier, A</i>   |               |
| C F Fletcher, BSc, M1EE, CEng, G3DXZ.....  | 553           |
| <i>1.8MHz auto tuning vertical antenna, A</i>  |               |
| T D Forrester, G4WIM.....  | 766           |
| <i>Z-match astu, An improved</i> .....   | errata 92     |
| <i>3.5MHz dipole, The—Practical aspects</i>  |               |
| N H Sedgwick, G8WV.....  | 335           |
| <i>50MHz receive/transmit converter, A</i>   |               |
| D S Jones, GW3XYW.....   | 260           |

## "Technical Topics" items

|   |          |
|---|----------|
| Amplifiers, ill of (valve, solidstate).....       | 570      |
| Amplifiers, transistor, instability in.....       | 855      |
| Amplitude modulation, steady carrier concept..... | 340, 574 |
| <b>Antenna(s):</b>                                |          |
| active hf loop.....                               | 417      |
| active, loop amplifier for.....                   | 187      |
| backfire, short.....                              | 267      |



|  |               |   |                    |
|--|---------------|---|--------------------|
| bandwidth, increasing, by mismatching.....       | 418           | Power meter/dummy load.....                           | 105                |
| basics.....                                      | 268           | Power meter G4COL's simplified version.....           | 342                |
| dipole, folded-back.....                         | 895           | Printed circuit boards, making.....                   | 420                |
| dipoles and loops, performance compared.....     | 35, 268       | Propagation, radio:                                   |                    |
| eli/vli/li.....                                  | 36            | dead (skip) zone boundaries.....                      | 852                |
| elements of non-uniform cross-section.....       | 36            | fixed path, over.....                                 | 38                 |
| feeder spacers, open-wire..... (see Feeders)     |               | getting to grips with the ionosphere.....             | 852                |
| loop, transmitting, compact.....                 | 418, 705, 895 | ionospheric heating transmitter.....                  | 500                |
| magnetic (small loop).....                       | 705, 895      | predicting with small computers.....                  | 110                |
| mobile, "back window".....                       | 637           | radiation monitor for prediction?.....                | 853                |
| MSJ (modified Slim Jim).....                     | 638           | 10-1MHz and deep fading.....                          | 852                |
| trapped dipole, WARC bands.....                  | 34            | QRP, solidstate (24MHz transmitter).....              | 495                |
| traps, coaxial, optimizing.....                  | 338           | Radiation, rf, protection levels.....                 | 780                |
| TZFD.....  | 499, 639      | Real zero single sideband (rzsab).....                | 856                |
| verticals over real earth.....                   | 107           | Receivers:  |                    |
| vertical Window.....                             | 639           | broadcast am/fm, single-chip.....                     | 498                |
| zepp, the original.....                          | 35            | digital signal processing in.....                     | 496                |
| 1-8MHz and atu.....                              | 420           | dynamic range, close-in.....                          | 496                |
| Antenna supports                                 |               | dynamic range, search for.....                        | 187                |
| axeman spare that tree.....                      | 107           | HRO, Japanese version.....                            | 500                |
| roach pole plus sailboard.....                   | 639           | IERE international conference, Bangor.....            | 637                |
| Antenna tuning units.....                        | 420, 638      | R4B (Drake), modification of.....                     | 496                |
| Bandwidth and noise                              |               | Relay switching, zero protection.....                 | 779                |
| Morse, Shannon, emc and audio filtering.....     | 332           | Reliability of equipment:                             |                    |
| Beginners' rigs, encouraging.....                | 339           | cost of.....  | 264                |
| Beryllium oxide ceramics.....                    | 39            | transceivers.....                                     | 34, 264            |
| Bilateral amplifiers in manpack transceiver..... | 777           | Restoring ex-WD equipment.....                        | 420                |
| Breakover diodes for transient protection.....   | 855           | Safety:   |                    |
| Coaxial cable, contamination of.....             | 572           | electric burns.....                                   | 779                |
| Components, rf, improvising.....                 | 185           | fuses.....  | 106                |
| Connector (SACWRG) for electret microphones..... | 639           | lightning hazards.....                                | 781                |
| Crystal filters:                                 |               | mains supplies.....                                   | 341                |
| modern.....                                      | 497           | mobile operating.....                                 | 498                |
| monolithic, vhf.....                             | 38, 497       | tinnitus, avoiding.....                               | 708                |
| signal-frequency.....                            | 109           | radiation (non-ionizing) levels.....                  | 780                |
| Crystal oscillator, universal "OrniTek".....     | 572           | Signetics, application notes.....                     | 784                |
| Crystals with vhf fundamentals.....              | 573           | Static, effect on solidstate devices.....             | 499                |
| Decibels, should we dump?.....                   | 39            | "Suitcase" transmitter-receivers:                     |                    |
| Digital transmission—clutter clunk.....          | 708           | German (Abwehr) models.....                           | 338                |
| Diversity, polarization.....                     | 573           | SOE's A2 with pi-tank.....                            | 778                |
| Earth conductivity maps.....                     | 106, 421      | Surface-mounted devices (smd) and home repair of..... | 264                |
| Electromagnetic compatibility (emc):             |               | Switches, rf, low-cost.....                           | 781                |
| braid-breaker filters for rfi/vfi.....           | 499           | SWR meter mythology.....                              | 417                |
| cordless telephones.....                         | 188, 421, 499 | Synthetic (digital) voice transmission.....           | 708                |
| screening cables to reduce rfi.....              | 416           | Tapes: adhesive and self-amalgamating.....            | 35                 |
| twi—the old enemy.....                           | 777           | Television, first transatlantic on 2KZ.....           | 338                |
| Feeder spreaders.....                            | 343, 574      | Tinnitus and audio levels.....                        | 708                |
| Filters, af, earpiece.....                       | 189, 420, 784 | Toroids for power transformers, advantages of.....    | 186                |
| Filters, rf, (crystal, ceramic, mechanical)..... | 497           | Transformer, series-parallel, for rf impedance.....   | 708                |
| Frequency allocations:                           |               | Transformers, power.....                              | 185                |
| spectrum marketing?.....                         | 636           | Transformers, toroid, using.....                      | 186                |
| 10-1MHz bandplaning.....                         | 569           | Transmitters:   |                    |
| Frequency modulation, sidebands.....             | 574           | grounded-grid amplifiers.....                         | 854                |
| Fuses and safety.....                            | 106           | grounded-grid amplifier parasitics.....               | 571, 854           |
| Home-construction, classes for.....              | 705           | linears, solid state.....                             | 496                |
| Home-construction, rules for.....                | 185           | neutralization of rf amplifiers.....                  | 782, 783           |
| Interference suppression, universal.....         | 778           | "Project 6L6".....                                    | 107, 340, 416, 778 |
| Inverter, dc/ac, 300W.....                       | 110           | "Project 6L6" and pi-tank.....                        | 778                |
| Load, dummy, with power meter.....               | 105           | power amplifiers, instability in.....                 | 570                |
| Mains supply, "neutral" fusing.....              | 265           | Valve technology:                                     |                    |
| Meteor scatter, polarization of.....             | 109           | base connections.....                                 | 854                |
| Microphones, mobile:                             |               | failures in power amplifiers.....                     | 854                |
| electret on SACWRG connector.....                | 639           | interest renewed?.....                                | 853                |
| hands-free.....                                  | 780           | not just nostalgia.....                               | 266                |
| Mixer, commutation, using S8901.....             | 188           | "soft".....   | 106                |
| Mixers of wide dynamic range.....                | 574           | "those were the days".....                            | 416                |
| Mobile operation, microphones and safety.....    |               | valve and "kim" aficionados.....                      | 636                |
| Morse for the hard-of-hearing.....               | 105, 416      | 4CX-series, coping with.....                          | 266, 854           |
| Morse, wonders of.....                           | 337           | 4CX250B, control circuits for.....                    | 266                |
| Morsum Magnificus.....                           | 856           | 6L6, the valve that changed everything.....           | 782                |
| New technology, pros and cons.....               | 495           | VFO, bipolar-assisted model.....                      | 416                |
| Parasitics.....                                  | 571           | home-built.....                                       | 707                |
| Pleesey manpack transceiver.....                 | 638           | 10-1MHz band.....                                     | 569, 709           |
| Plugs, sockets and adapters:                     |               | 11GHz receiver converter module.....                  | 110                |
| 6A multiway adapters.....                        | 180, 574      | 28MHz, emptiness of.....                              | 339                |
| Polarization diversity at uhf.....               | 573           | 50MHz, getting on.....                                | 267                |
| Poldu early antennas.....                        | 37            | 55, origin of?.....                                   | 420                |

